What is claimed is:

- 1. A communication terminal apparatus comprising:
- a first modulator demodulator that applies modulation/demodulation processing on a voice communication signal;
- a second modulator/demodulator that applies modulation/demodulation processing on a high-speed data communication signal;

a communication type determinator that determines a type of communication based on input information; and

a changeover controller that selects which of the first modulator/demodulator or the second modulator/demodulator is used to communicate based on a determined type of communication.

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- 2. The communication terminal apparatus according to claim 1, wherein the first modulator/demodulator applies modulation/demodulation processing on a voice communication signal transmitted/received based on a TDMA system and the second modulator/demodulator applies modulation/demodulation processing on a high-speed data communication signal transmitted/received based on a CDMA system.
- 25 3. The communication terminal apparatus according to claim 1, wherein the first modulator/demodulator applies modulation/demodulation processing on a voice communication signal transmitted/received based on a

CDMA system and the second modulator/demodulator applies modulation/demodulation processing on a high-speed data communication signal transmitted/received based on an HDR system.

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4. The communication terminal apparatus according to claim 1, wherein the communication type determinator determines the type of communication based on how the terminal is connected.

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- 5. The communication terminal apparatus according to claim 4, wherein in the case where an external apparatus is connected to the terminal, the communication type determinator determines that the communication is a high-speed data communication.
- 6. The communication terminal apparatus according to claim 1, wherein the communication type determinator determines the type of communication based on
- 20 information of a control signal demodulated by the first modulator/demodulator or the second modulator/demodulator.
- 7. The communication terminal apparatus according to claim 1, further comprising a third modulator/demodulator that applies modulation/demodulation processing to a control signal.

8. The communication terminal apparatus according to claim 7, wherein the communication type determinator determines the type ϕf communication based on information of a control signal demodulated by the third modulator/demodulator

9. A base station apparatus comprising:

a first modulator demodulator that applies modulation/demodulation processing on a voice communication signal;

a second modulator demodulator that applies modulation/demodulation processing on a high-speed data communication signal;

a third modulator/demodulator that applies modulation/demodulation processing on a control signal;

a communication type determinator that determines a type of communication based on input information; and

a changeover controller that selects which of the first modulator/demodulator or the second

modulator/demodulator is used to communicate based on 20 a determined type of communication.

10. The base station apparaths according to claim 9, wherein the first modulator/demodulator applies modulation/demodulation processing on a voice 25 communication signal transmitted/received based on a TDMA system and the second modula tor/demodulator applies modulation/demodulation processing on a high-speed data

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communication signal transmitted/received based on a CDMA system.

- 11. The base station apparatus according to claim 9,

 5 wherein the first modulator/demodulator applies

 modulation/demodulation processing on a voice

 communication signal transmitted/received based on a

 CDMA system and the second modulator/demodulator applies

 modulation/demodulation processing on a high-speed data

 communication signal transmitted/received based on an

 HDR system.
- 12. The base station apparatus according to claim 9, wherein the communication type determinator determines

 15 the type of communication based on information of a control signal demodulated by the third modulator/demodulator.
 - 13. A radio communication method comprising:
- a first modulation/demodulation step of applying modulation/demodulation processing on a voice communication signal;
 - a second modulation/demodulation step of applying modulation/demodulation processing on a high-speed data communication signal;
 - a communication type determination step of determining a type of a communication based on input information; and

a changeover controlling step of selecting which of the first modulation demodulation step or the second modulation/demodulation step is used to communicate based on a determined type of communication.

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14. The radio communication method according to claim 13, wherein in the first modulation/demodulation step, modulation/demodulation processing is applied on a voice communication signal transmitted/received based on a TDMA system and in the second modulation/demodulation step, modulation/demodulation processing is applied on a high-speed data communication signal transmitted/received based on a CDMA system.

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15. The radio communication method according to claim 13, wherein in the first modulation/demodulation step, modulation/demodulation processing is applied on a voice communication signal transmitted/received based on a CDMA system and in the second modulation/demodulation step, modulation/demodulation processing is applied on a high-speed data communication signal transmitted/received based on an HDR system.